EV Project Electric Vehicle Charging Infrastructure Summary Report

THE EV Project

Region: All

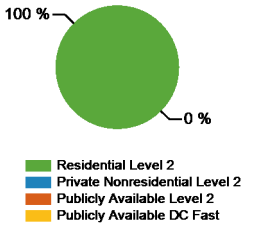
Report period: January 2011 through March 2011

Number of EV Project vehicles in region: 35

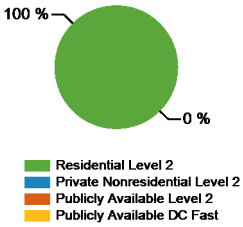
Charging Unit Usage

	Residential Level 2	Private Nonresidential Level 2	Publicly Available Level 2	Publicly Available DC Fast	Total
Number of charging units[1]	35	0	0	0	35
Number of charging events[2]	800	0	0	0	800
Electricity consumed (AC MWh)	5.25	0.00	0.00	0.00	5.25
Percent of time with a vehicle connected to charging unit	36%	0%	0%	0%	36%
Percent of time with a vehicle drawing power from charging unit	7%	0%	0%	0%	7%

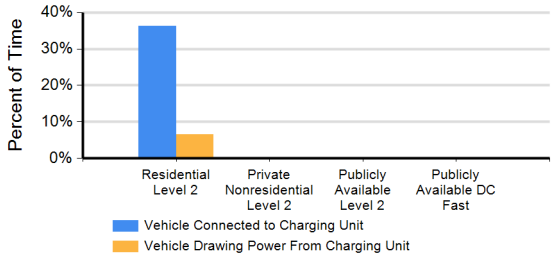
Number of Charge Events



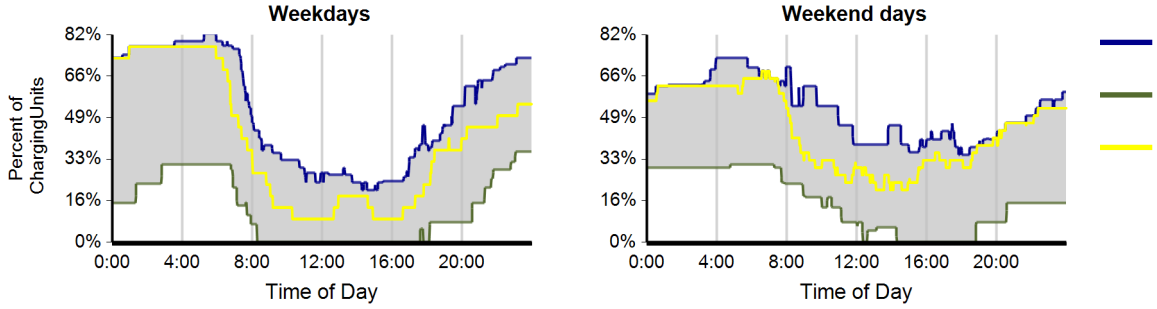
Electricity Consumed



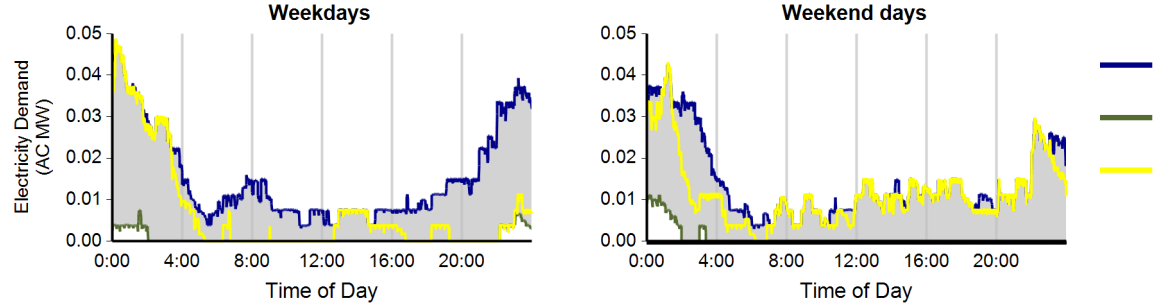
Charging Unit Utilization



Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day[3]



Charging Demand: Range of Aggregate Electricity Demand versus Time of Day[4]



[1] Includes all charging units that were in use by the end of the reporting period

[2] A charging event is defined as the period when a vehicle is connected to a charging unit, during which period some power is transferred

[3] Considers the connection status of all charging units every minute

[4] Based on 15 minute rolling average power output from all charging units

Residential Level 2 Electric Vehicle Supply Equipment (EVSE)

EVSE Usage

	Weekday	Weekend	Overall
Number of charging events	593	207	800
Electricity consumed (AC MWh)	4.01	1.24	5.25
Percent of time with a vehicle connected to EVSE	36%	38%	36%
Percent of time with a vehicle drawing power from EVSE	7%	7%	7%
Average number of charging events started per EVSE per day	0.9	0.8	0.9
Average number of distinct vehicles charged per EVSE per day (EV Project vehicles only)	1.0	1.0	1.0

Vehicles Charged

	Nissan Leaf	Chevrolet Volt	Non-EV Project vehicles
Percent of charging events	100%	0%	0%
Percent of electricity consumed	100%	0%	0%

Individual Charging Event Statistics

	Weekday (WD)	Weekend (WE)	Overall
Average length of time with vehicle connected per charging event (hr)	9.8	11.1	10.2
Average length of time with vehicle drawing power per charging event (hr)	1.9	1.8	1.9
Average electricity consumed per charging event (AC kWh)	6.8	6.0	6.6